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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,002	08/08/2001	Tom-Chin Chang	JCLA 7428	3609
7590	12/28/2004		EXAMINER BAKER, CHARLOTTE M	
J.C. Patents 4 Venture, Suite 250 Irvine, CA 92618			ART UNIT 2626	PAPER NUMBER

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/925,002

Applicant(s)

CHANG ET AL.

Examiner

Charlotte M Baker

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
- Paper No(s)/Mail Date ____.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

JEROME GRANT II
PRIMARY EXAMINER

Charlotte M. Baker

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Taiwan, R.O.C on 06/08/2001. It is noted, however, that applicant has not filed a certified copy of application 90113920 as required by 35 U.S.C. 119(b).

Claim Objections

2. Claims 3 and 4 are objected to because of the following informalities: the specification references "an alternative-sensing device" on p. 4, par. 17, but the claim references "an alternate-sensing device; p. 8, ln. 17, replace "alternate sensing device" with "alternative-sensing device"; p. 8, ln. 22, replace "alternate-sensing device" with "alternative-sensing device"; p. 9, ln. 2, replace "application specific circuit" with "application specific integrated circuit"; claim 4, p. 9, ln. 9-10, replace "application specific circuit" with "application specific integrated circuit". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. A linear sensing device is claimed, but neither the figures nor the specification clearly define the device.

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5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 recites the limitations "the even compensation value" and "the odd compensation value" on p. 8, ln. 6. There is insufficient antecedent basis for these limitations in the claim.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Otsuka (6,324,344).

Regarding claim 1: Otsuka discloses an input device (Figure 3, light measuring sensor 1 and A/D 9) for inputting an even data value and an odd data value (Figures 1 and 2, plurality of sensor pixels of odd and even values); an application specific integrated circuit (Figure 3, correction computing part 2) coupled to the input device (Figure 3, light measuring sensor 1 and A/D 9) for receiving the even compensation value and the odd compensation value (Figure 3, gain correction computing part 4), performing a computation using the even compensation value,

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the odd compensation value and a preset value (Figure 2, reference integration period) to produce an even compensation value and an odd compensation value (Figure 3, gain correction computing part 4), and averaging the even compensation value and the odd compensation value to produce an averaged odd-even compensation value (average of gain correction values, col. 3, ln. 30-39); a compensation memory unit (Figure 3, ROM 7) coupled to the application specific integrated circuit (Figure 3, correction computing part 2) for holding the averaged odd-even compensation value (stored in ROM 7, col. 4, ln. 62-65).

Regarding claim 2: Otsuka satisfies all the elements of claim 1. Otsuka further discloses an image memory unit (Figure 3, RAM 7) coupled to the application specific integrated circuit (Figure 3, correction computing part 2) for accessing the image data values (sensor output stored in the RAM 6, col. 5, ln. 17-21); and an input/output interface (Figure 3, computing part 8) coupled to the application specific integrated circuit (Figure 3, correction computing part 2) for accessing the image data values.

Regarding claim 3: Otsuka satisfies all the elements of claim 1. Otsuka further discloses an alternative-sensing device (Figure 3, light measuring sensor 1 and convert output characteristic 16 of the sensor into the intrinsic exposure characteristic 15 of the camera, col. 5, ln. 38-41), wherein the alternative-sensing device performs a plurality of alternate scanning operations (measure light passing through a photo-taking lens, col. 4, 46-50) on a document (object of photo-taking lens) and sequentially obtains a plurality of alternately scanned pixels (Figure 3, light measuring sensor 1 has a plurality of pixels, col. 4, ln. 46-47); and an analogue/digital converter (Figure 3, A/D 9) coupled to the alternative-sensing device (Figure 3, light measuring sensor 1) for digitizing the alternately scanned pixel data in analogue format into even data

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values and odd data values (inherent feature of an A/D converter and col. 5, ln. 10-12) and transferring (Figure 3 shows transfer from A/D 9 to correction computing part 2) the even data values and the odd data values to the application specific integrated circuit.

Regarding claim 4: Otsuka satisfies all the elements of claim 1. Otsuka further discloses a linear sensing device (light measuring sensor 1), wherein the linear sensing device performs a plurality of linear scanning operations (measure light passing through a photo-taking lens, col. 4, 46-50) on a document (object of photo-taking lens) and sequentially obtains a plurality of linearly scanned pixels (Figures 1 and 2, plurality of sensor pixels); and an analogue/digital converter (Figure 3, A/D 9) coupled to the linear sensing device (Figure 3, light measuring sensor 1) for digitizing the linearly scanned pixel data in analogue format into even data values and odd data values (inherent feature of an A/D converter and col. 5, ln. 10-12) and transferring (Figure 3 shows transfer from A/D 9 to correction computing part 2) the even data values and the odd data values to the application specific integrated circuit.

Regarding claim 5: Otsuka discloses providing an even compensation value for compensating even-numbered pixels and an odd compensation value for compensating odd-numbered pixels (Figure 3, gain correction computing part 4 performs this method step); averaging the even compensation value and the odd compensation value to produce an averaged odd-even compensation value (average of gain correction values, col. 3, ln. 30-39).

Regarding claim 6: Otsuka satisfies all the elements of claim 5. Otsuka further discloses wherein the method further includes using the odd-even compensation value (average of gain correction values, col. 3, ln. 30-39) to compensate the even-numbered pixels and the odd-numbered pixels during a scanning operation (col. 5, ln. 17-21).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlotte M Baker whose telephone number is (703) 306-3456. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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[Signature]
EXAMINEE GRANT II
PRIMARY EXAMINER